IN THE CLAIMS:

- (Currently Amended) A method of processing messages, comprising:
 receiving, at a sockets layer configured for a server application executing on of a
 computer, data from a remote source via a network connection prior to allocating a
 buffer to contain the data; and subsequently
 allocating the buffer to contain the data.
- 2. (Original) The method of claim 1, wherein the messages are client-server messages.
- 3. (Original) The method of claim 1, wherein the data is received over a sockets streaming protocol.
- 4. (Original) The method of claim 1, wherein allocating the buffer comprises sizing the buffer according to a size of the data.
- 5. (Currently Amended) The method of claim 1, wherein the allocating is performed in response to a buffer request from the sockets layer.
- 6. (Original) The method of claim 1, wherein the network connection is a Transfer Control Protocol/Internet Protocol (TCP/IP) connection.
- 7. (Original) The method of claim 1, wherein allocating the buffer comprises: processing a buffer request from a sockets layer after receiving the data; and providing the buffer to the sockets layer.
- 8. (Original) The method of claim 7, wherein the buffer request specifies a size of the buffer equal to a size of the data.

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9. (Currently Amended) A <u>tangible</u> computer readable medium containing a program which, when executed by a computer, performs operations for processing messages, the operations comprising:

processing an input operation issued from a sockets server application to a sockets layer of the computer, wherein the input operation is configured with a buffer mode parameter indicating to the sockets layer a buffer acquisition method for acquiring a buffer for containing data received from a remote source via a network connection;

receiving the data from the remote source via the network connection; and subsequently

allocating the buffer.

- 10. (Currently Amended) The <u>tangible</u> computer readable medium of claim 9, wherein the messages are client-server messages.
- 11. (Currently Amended) The <u>tangible</u> computer readable medium of claim 9, wherein the data is received over a sockets streaming protocol.
- 12. (Currently Amended) The <u>tangible</u> computer readable medium of claim 9, wherein the input operation is further configured with a record definition specifying to the sockets layer a format of the data.
- 13. (Cancelled) The computer readable medium of claim 9, further comprising: receiving the data from the remote source via the network connection; and subsequently

allocating the buffer.

14. (Currently Amended) The <u>tangible</u> computer readable medium of claim 10, wherein the allocation is performed by one of the sockets server application and the sockets layer.

- 15. (Currently Amended) The <u>tangible</u> computer readable medium of claim 10, wherein the buffer is allocated from one of:
 - storage owned by the sockets server application; and system-supplied storage not owned by the sockets server application.
- 16. (Currently Amended) The <u>tangible</u> computer readable medium of claim 10, wherein allocating the buffer comprises sizing the buffer according to a size of the data.
- 17. (Currently Amended) The computer <u>tangible</u> readable medium of claim 10, wherein allocating the buffer comprises <u>executing a callback function provided by ealling</u> back to the sockets server application with an instruction to allocate the buffer.
- 18. (Currently Amended) The <u>tangible</u> computer readable medium of claim 10, wherein the allocating is performed in response to a buffer request made by the sockets layer.
- 19. (Currently Amended) The <u>tangible</u> computer readable medium of claim 9, further comprising:

receiving the data from the remote source via the network connection; and if the buffer is large enough to contain the data, copying the data into a previously allocated buffer provided to the sockets layer with the input operation; and if the previously allocated buffer is not large enough to contain the data, requesting a larger buffer sufficient to contain the data in accordance with the buffer acquisition method.

- 20. (Currently Amended) A system in a distributed environment, comprising:
 a network interface configured to support a network connection with at least one
 other computer in the distributed environment;
- a memory comprising a sockets server application, a socket in communication with the sockets server application and a protocol stack in communication with the

socket, wherein the protocol stack is configured to transport messages between the network interface and the socket;

a processor configured to perform operations for processing messages, the operations comprising:

processing an input operation issued from the sockets server application to the socket, wherein the input operation is configured with a buffer mode parameter indicating to the socket a buffer acquisition method for acquiring a buffer for containing data received from the at least one other computer; and receiving the data; and subsequently allocating the buffer.

- 21. (Original) The system of claim 20, wherein the messages are client-server messages.
- 22. (Original) The system of claim 20, wherein the protocol stack is configured for a sockets streaming protocol.
- 23. (Original) The system of claim 20, wherein the memory comprises record definition specifying to the socket a format of the data.
- 24. (Cancelled) The system of claim 20, wherein the operations further comprise: receiving the data; and subsequently allocating the buffer.
- 25. (Currently Amended) The system of claim-24_20, wherein the allocation is performed by one of the sockets server application and the socket.
- 26. (Currently Amended) The system of claim-24_20, further comprising application-supplied storage owned by the sockets server application and system-supplied storage not owned by the sockets server application and wherein allocating the buffer is dependent on a value of the buffer mode parameter and comprises one of:

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allocating the buffer from application-supplied storage when the buffer mode parameter has a first value; and

allocating the buffer from system-supplied storage when the buffer mode parameter has a second value.

- 27. (Currently Amended) The system of claim-24_20, wherein allocating the buffer comprises sizing the buffer according to a size of the data.
- 28. (Currently Amended) The system of claim-24_20, wherein allocating the buffer comprises executing a callback function provided by calling back to the sockets server application with an instruction to allocate the buffer.
- 29. (Currently Amended) The system of claim-24 20, wherein the allocating is performed in response to a buffer request made by the socket.

Please add the following new claims:

30. (New) The method of claim 1, wherein allocating the buffer to contain the data comprises allocating the buffer according to a buffer acquisition method specified as a parameter to a receive operation initiated for the socket.